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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,623	01/29/2002	Yutaka Ida	36856.609	5293

7590 09/08/2003

KEATING & BENNETT LLP
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EXAMINER

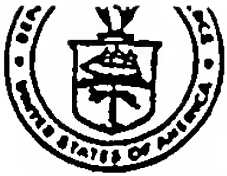
LEE, BENNY T

ART UNIT PAPER NUMBER

2817

DATE MAILED: 09/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE
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10,059,623

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXAMINER	
ART UNIT	PAPER NUMBER
	8

DATE MAILED:

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

- ☒ This application has been examined ☒ Responsive to communication filed on 9 June 2003 ☐ This action is made final.

A shortened statutory period for response to this action is set to expire Three (3) month(s), days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948. |
| 3. <input checked="" type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449 | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474 | 6. <input type="checkbox"/> |

Part II SUMMARY OF ACTION

1. ☒ Claims 1-44 are pending in the application.
Of the above, claims 2-11; 13-22; 24-33; 34; 35-44 are withdrawn from consideration.
2. ☐ Claims _____ have been cancelled.
3. ☐ Claims _____ are allowed.
4. ☒ Claims 1; 12; 23 are rejected.
5. ☐ Claims _____ are objected to.
6. ☒ Claims 1-44 are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings which are acceptable for examination purposes until such time as allowable subject matter is indicated.
8. ☐ Allowable subject matter having been indicated, formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on _____. These drawings are: ☐ acceptable; ☐ not acceptable (see explanation).
10. ☐ The ☐ proposed drawing correction and/or the ☐ proposed additional or substitute sheet(s) of drawings, filed on _____, has (have) been ☐ approved by the examiner. ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed _____, has been ☐ approved. ☐ disapproved (see explanation). However, the Patent and Trademark Office no longer makes drawing changes. It is now applicant's responsibility to ensure that the drawings are corrected. Corrections MUST be effected in accordance with the instructions set forth on the attached letter "INFORMATION ON HOW TO EFFECT DRAWING CHANGES", PTO-1474.
12. ☒ Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☒ been received ☐ not been received
☐ been filed in parent application, serial no. _____; filed on _____.
3. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
4. ☐ Other

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Applicant's election without traverse of Species I, claims 1, 12, 23 in Paper No. 7 is acknowledged.

Claims 2-11, 13-22, 24-44 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 7.

The disclosure is objected to because of the following informalities: Page 1, third line from bottom, note that "Fig. 24 is" should be rephrased as --Figs. 24(A), 24 (B) are--for a proper characterization. Page 2, line 2, note that "Zo in Fig. 24(B)" should be rephrased as --In Fig. 24(B), Zo--for a proper characterization. Page 2, lines 6, 8, and page 14, line 6, note that "Fig. 24" should properly read as --Figs. 24 (A), 24(B)--, respectively. Page 3, line 12, note that it is unclear whether "bumps" are the proper characterization. For example, would --grooves-- be a more appropriate characterization? Pages 3-10, in the "summary of the invention", note that such summary should be rewritten as to be reflective of the elected invention. Page 10, line 19, and page 13, line 20, note that "Fig. 2 shows" should be rephrased as --Figs. 2(A), 2(B) show--, respectively. Page 10, line 21, note that --Fig. 2-- should precede "(A)" and "(B)" for clarity. Page 10, line 27 and page 17, line 11, note that "Fig. 5 shows" should be rephrased as --Figs. 5(A), (B) show--for a proper characterization. Page 10, line 28 and page 11, line 1, note that --Fig. 5-- should precede "(A)" and "(B)", respectively. Page 11, line 22, note that "Fig. 16" should be rephrased as --Figs. 16(A), 16(B), 16(C), 16(D) show -- for a proper characterization; lines 23, 24, note that --Fig. 16-- should precede "(A)", "(B)", "(C)", "(D)", respectively. Page

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12, line 9, note that "Fig. 24 shows" should be rephrased as --Figs. 24(A), 24(B) show--for proper characterization; lines 10, 11, note that --Fig. 24--should precede "(A)" and "(B)", respectively. Page 13, third line from bottom and page 14, line 5, and page 18, line 6, note that "Fig. 2" should properly read --Figs. 2(A), 2(B)--. Page 14, line 13, note that "eg" should be rewritten as --e.g.--. Page 16, line 19, note that "1e-4 to 1e-3" should be equivalently rewritten as --0.0001 to 0.001--. Page 17, line 19, note that "Fig. 5" should be rewritten as --Figs. 5(A), 5(B)--for clarity of description. Page 22, lines 6-13, note that this paragraph needs to reference --Figure 13--for clarity of description. Page 24, line 12, note that "Fig. 16" should properly read --Figs. 16(A), 16(B), 16(C), 16(D)--. Page 24, line 25 to line 29, note that the paragraph needs to reference --Fig. 16(B)-- for clarity of description. Page 28, lines 19, 20, note that "136 to 140" and "141 to 144" should be rewritten as --136, 137, 138, 139, 140--and--141, 142, 143, 144--, respectively. Page 31, line 24, note that --shown in Fig. 2--should follow "172" for clarity of description.

Appropriate correction is required.

The disclosure is objected to because of the following informalities: Note that the following reference labels need description relative to the corresponding drawing figure's description: figs. 6, 9 (143); fig. 13 (90); fig. 15 (107, 108, 109); fig. 20 (10); fig. 25 (15).

Appropriate correction is required.

The drawings are objected to because of the following: In Figs. 1, 3, 4, 6, 7, 9, 10-15, 16D, 17-20, 23, 25-27, note that the dielectric layers in these sectional views need to be properly

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cross-hatched to be reflective of dielectric material, In Fig. 11, reference label--44--needs to be provided; In Fig. 16D, reference labels --(43, 102, 103, 105) --need to be provided; In Fig. 18, reference label --120-- needs to be provided; In Fig. 19, reference label --112--needs to be provided; In Figs. 23, 25-27, note that these drawing figures need to be designated as --PRIOR ART--. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 12, 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by

Richards et al or Matsui et al.

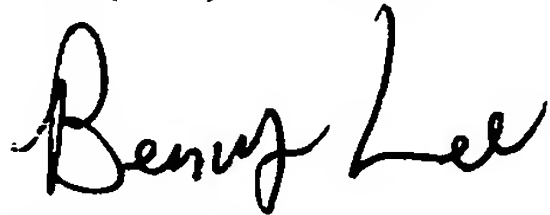
Richards et al (e.g. fig. 14A) or Matsui et al (fig. 16A) disclose a micro strip line comprising a dielectric substrate (not numbered in Richards et al; 1 in Matsui et al) with a ground plane (not number in Richards et al; 2 in Matsui et al) on a back or bottom surface of the substrate. A conductive strip (not numbered in Richards et al; 30 in Matsui) is disposed on the front surface of the substrate. The conductive strip in each references comprises a centrally located line electrode and edge electrodes (e.g. E in Matsui et al) which extend along each edge of the line electrode and extends upwardly from the front face of the substrate (i.e. perpendicular

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or 90 degrees to the front face). Note that the effect of these edge electrodes is to reduce the current density (which is highest) at the edges of the line electrodes. (e.g. see col 5, ls 17-25 and 35-40 in Richards et al and see col 7, ls 58-61 in Matsui et al).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hideki pertains to an arrangement for current density distribution in a transmission line.

Any inquiry concerning this communication should be directed to Benny Lee at telephone number (703) 308-4902.



BENNY T. LEE
PRIMARY EXAMINER
ART UNIT 2817

B LEE/pj

08/20/03